

WHAT IS CLAIMED IS:

- 1 1. A device for holding at least one cartridge
- 2 having a chamber containing a fluid, wherein the chamber
- 3 includes a generally planar face, the device comprising:
- 4 a rotatable body having a rotational axis, wherein
- 5 the rotatable body includes at least one mounting element
- 6 which is adapted to mount the rotatable body such that the
- 7 face of the chamber is generally perpendicular to the
- 8 rotational axis.
- 9
- 10 2. The device as in claim 1, wherein the mounting
- 11 element comprises a pair of opposing walls which each include
- 12 at least one slot, and wherein the slots are adapted to
- 13 receive the cartridge.
- 14
- 15 3. The device as in claim 2, wherein the rotatable
- 16 body comprises a base connecting the pair of walls.
- 17
- 18 4. The device as in claim 2, wherein the rotational
- 19 axis extends through one of the walls.
- 20
- 21 5. The device as in claim 2, wherein the opposing
- 22 walls are parallel to each other, and wherein the slots are
- 23 configured such that the face of the chamber is generally
- 24 perpendicular to the walls when placed into the slots.
- 1
- 2 6. The device as in claim 2, wherein at least one
- 3 of the slots is keyed such that the cartridge is insertable
- 3 into the slot in only one orientation.
- 1
- 2 7. The device as in claim 2, wherein each wall
- 3 includes a plurality of slots which are adapted to receive a
- 3 plurality of cartridges.
- 1
- 2 8. The device as in claim 2, wherein the rotatable
- 3 body includes at least three parallel walls, with the walls
- 3 each including slots which are adapted to receive multiple
- 4 cartridges.

1 9. The device as in claim 2, further comprising a
2 lid operably attached to at least one of the walls and which
3 is adapted to secure the cartridge within the slots when the
4 lid is closed.

1 10. The device as in claim 1, further comprising at
2 least one coupling element operably attached to the body in
3 alignment with the rotational axis, wherein the coupling
4 element is adapted to couple the rotatable body to a rotation
5 mechanism.

1 11. The device as in claim 1, wherein said device
2 is fabricated from a generally amber colored transparent
3 material.

1 12. The device of claim 11, wherein said material
2 plexiglass.

1 13. The device of claim 11, wherein said material
2 prevents the passage therethrough of light having a wavelength
3 in the range of 200 nm to 700 nm.

1 14. A system to facilitate the hybridization of a
2 fluid, the system comprising:

3 at least one cartridge having a chamber for holding
4 a fluid, wherein the chamber includes a generally planar face;
5 a rotatable body having a rotational axis, wherein
6 the rotatable body includes at least one mounting element to
7 removably mount the cartridge to the rotatable body such that
8 the face of the chamber is generally perpendicular to the
9 rotational axis.

1 15. The system as in claim 14, wherein the mounting
2 element comprises a pair of opposing walls which each include
3 at least one slot, and wherein the slots are arranged such
4 that the cartridge is insertable into the slots.

1 16. The system as in claim 15, wherein the

2 rotatable body comprises a base connecting the pair of walls.

1 17. The system as in claim 15, wherein the
2 rotational axis extends through one of the walls.

1 18. The system as in claim 15, wherein the opposing
2 walls are parallel to each other, and wherein the slots are
3 configured such that the face of the chamber is generally
4 perpendicular to the walls when placed into the slots.

1 19. The system as in claim 15, wherein at least one
2 of the slots is keyed such that the cartridge is insertable
3 into the slot in only one orientation.

1 20. The system as in claim 15, wherein each wall
2 includes a plurality of slots, and wherein the slots are
3 arranged such that multiple cartridges may be inserted into
4 the slots in a parallel arrangement.

1 21. The system as in claim 15, wherein the
2 rotatable body includes at least three parallel walls, with
3 the walls each including slots for receiving multiple
4 cartridges.

1 22. The system as in claim 15, further comprising a
2 lid operably attached to at least one of the walls, wherein
3 the lid is movable between an open and a closed position, and
4 wherein the lid secures the cartridge within the slots when
5 the lid is in the closed position.

1 23. The system as in claim 13, further comprising
2 at least one coupling element operably attached to the body in
3 alignment with the rotational axis, wherein the coupling
4 element is adapted to couple the rotatable body to a rotation
5 mechanism.

1 24. The system as in claim 14, wherein the chamber
2 includes a pair of planar spaced-apart faces which define an
3 interior having the fluid, wherein the faces are generally

4 rectangular in geometry, and wherein the cartridge is mounted
5 to the body such that the faces are generally perpendicular to
6 the rotational axis to facilitate mixing of the fluid within
7 the chamber.

1 25. A method for facilitating the hybridization of
2 a fluid, the method comprising:

3 providing a cartridge having a chamber at least
4 partially filled with a fluid, wherein the chamber includes a
5 generally planar face;

6 removably coupling the cartridge to a rotatable body
7 having a rotational axis such that the face of the chamber is
8 generally perpendicular to the rotational axis; and
9 rotating the rotatable body about the rotational
10 axis.

1 26. The method as in claim 24, further comprising
2 rotating the body about the rotational axis at a rate in the
3 range from about 30 rpm to about 90 rpm.

1 27. The method as in claim 24, further comprising
2 heating the chamber to a temperature in the range from about
3 30 degrees C. to about 60 degrees C. while the body is
4 rotating.

1 28. The method as in claim 27, further comprising
2 rotating the body within an oven to heat the chamber.

1 29. The method as in claim 24, wherein the coupling
2 step comprises inserting the cartridge into slots formed in a
3 pair of spaced-apart walls.

1 30. The method as in claim 29, further comprising
2 securing the cartridge within the slots prior to rotating the
3 body.

1 31. The method as in claim 29, further comprising
2 inserting multiple cartridges into multiple slots in the pair
3 of walls.

1 32. The method as in claim 24, wherein the chamber
2 includes a pair of planar spaced-apart faces which define an
3 interior having the fluid, wherein the faces are generally
4 rectangular in geometry, and further comprising coupling the
5 cartridge to the body such that the faces are generally
6 perpendicular to the rotational axis to facilitate mixing of
7 the fluid within the chamber.

As a result, the new system of government was to be a federal one, with a central government and state governments.